

FIG. 1

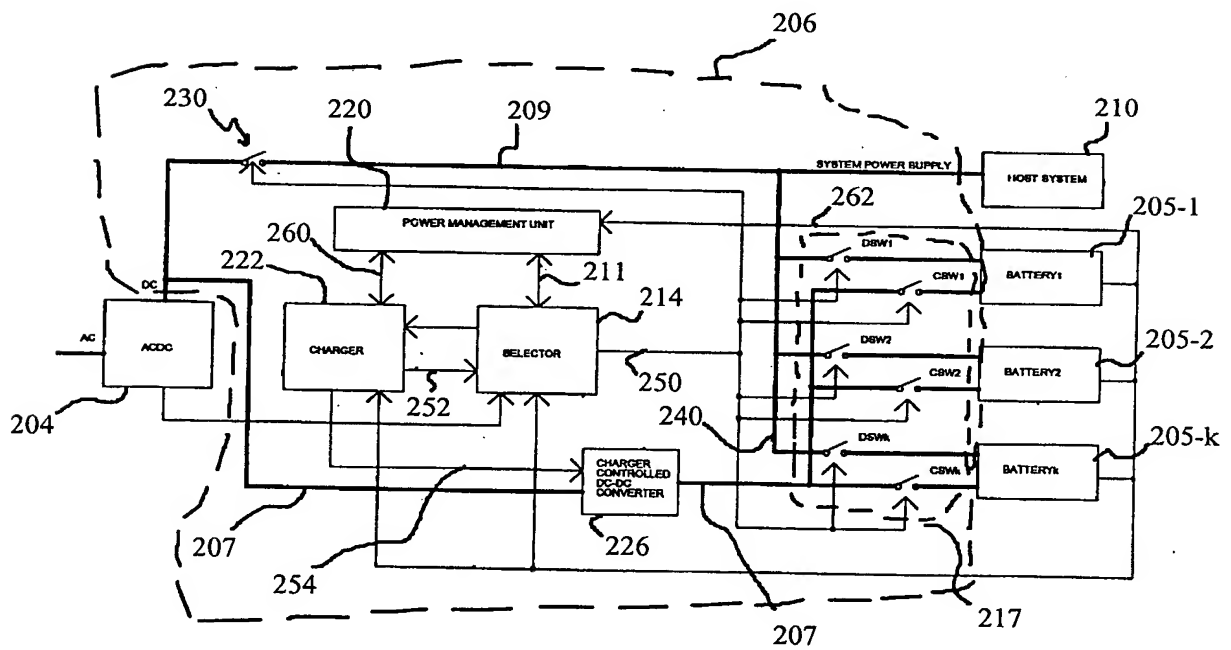


FIG. 2

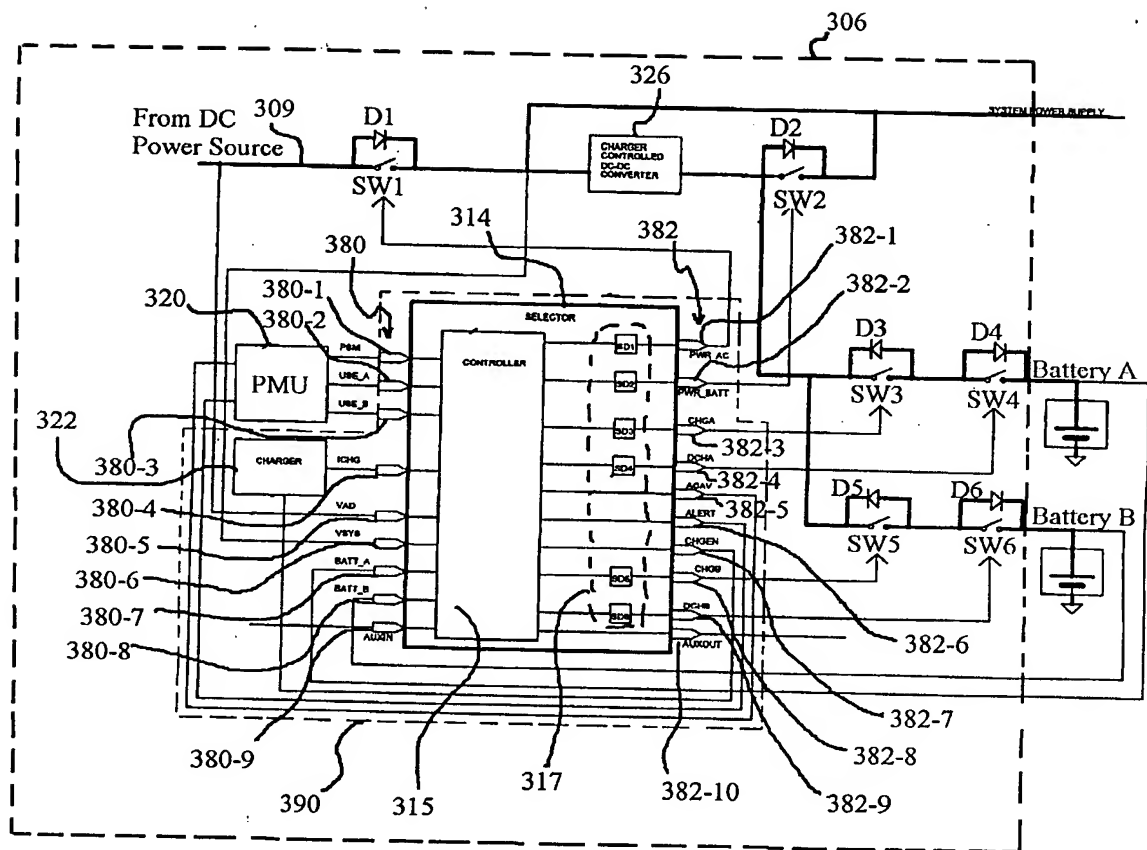


FIG. 3

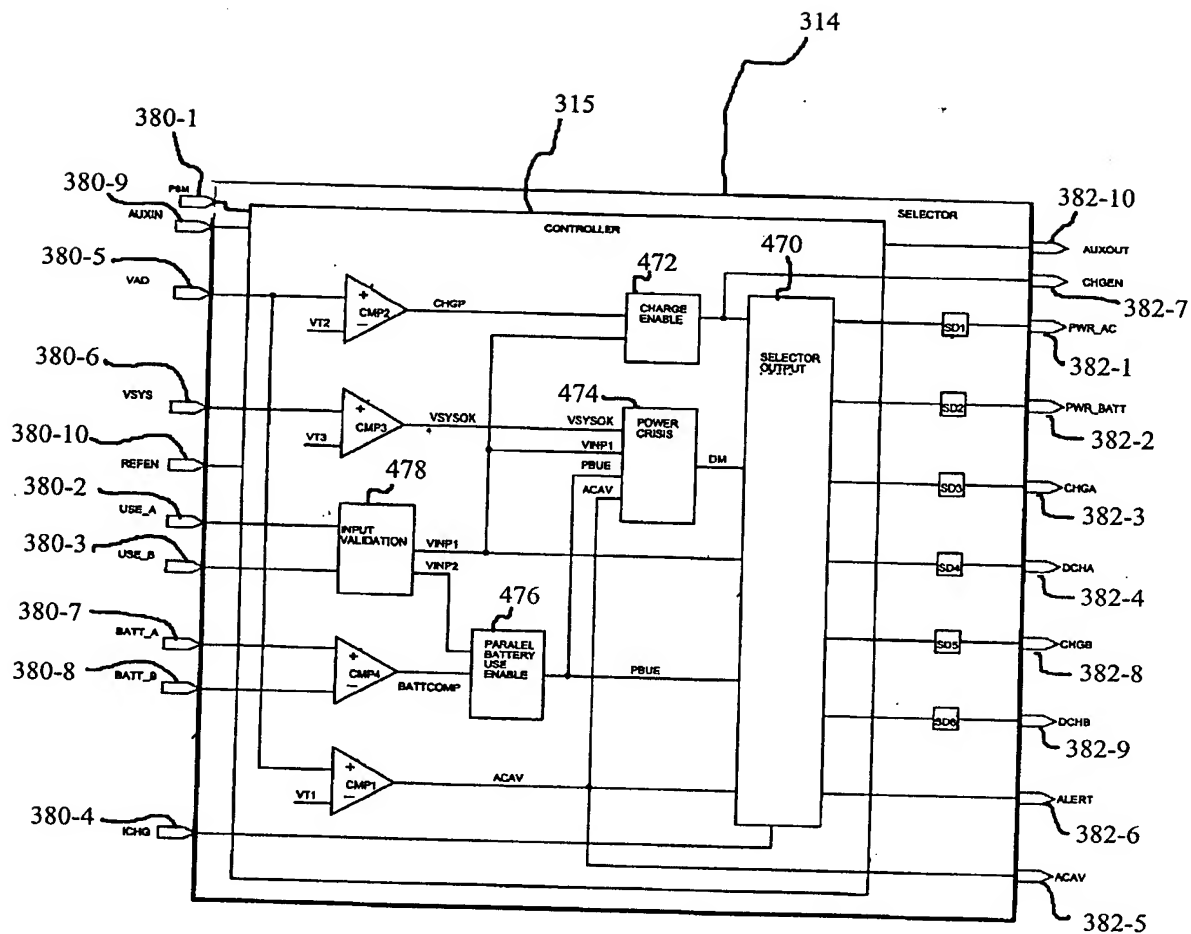


FIG. 4

500

Signal States	USE signals Indicate Battery A				USE signals Indicate Battery B				USE signals Indicate Battery A and B in parallel								USE signals Indicate neither Battery A or B	
	USE_A	USE_B	USE_A	USE_B	USE_A	USE_B	USE_A	USE_B	USE_A	USE_B	USE_A	USE_B	USE_A	USE_B	USE_A	USE_B		
Lower voltage battery	low	high	low	high	low	high	low	high	low	high	low	high	low	high	low	high		
Charging Current Signal	high	high	high	high	high	high	high	high	high	high	high	high	high	high	high	high		
VINP1	high	high	high	high	high	high	high	high	high	high	high	high	high	high	high	low		
CHGEN	high	high	high	high	high	high	high	high	high	high	high	high	high	high	high	low		
PBUE	low	low	low	low	low	low	low	low	high	high	low	low	low	low	low	low		
Switch States																		
SW1	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON		
SW2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
SW3	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF		
SW4	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF		
SW5	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	OFF	OFF	ON	ON	ON	OFF		
SW6	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	OFF	ON	OFF	OFF	OFF	ON	ON	OFF		

FIG. 5

Supply Mode		Nbssm1		Nbssm2
Targeted Supply Battery		A	B	A+B
VINP1		high	high	high
VINP2		low	low	high
BATTCOMP		X	X	high
PBLUE		low	low	high
SW1	OFF	OFF	OFF	OFF
SW2	ON	ON	ON	ON
SW3	ON	OFF	ON	ON
SW4	ON	OFF	ON	ON
SW5	OFF	ON	ON	ON
SW6	OFF	ON	ON	ON

FIG. 6

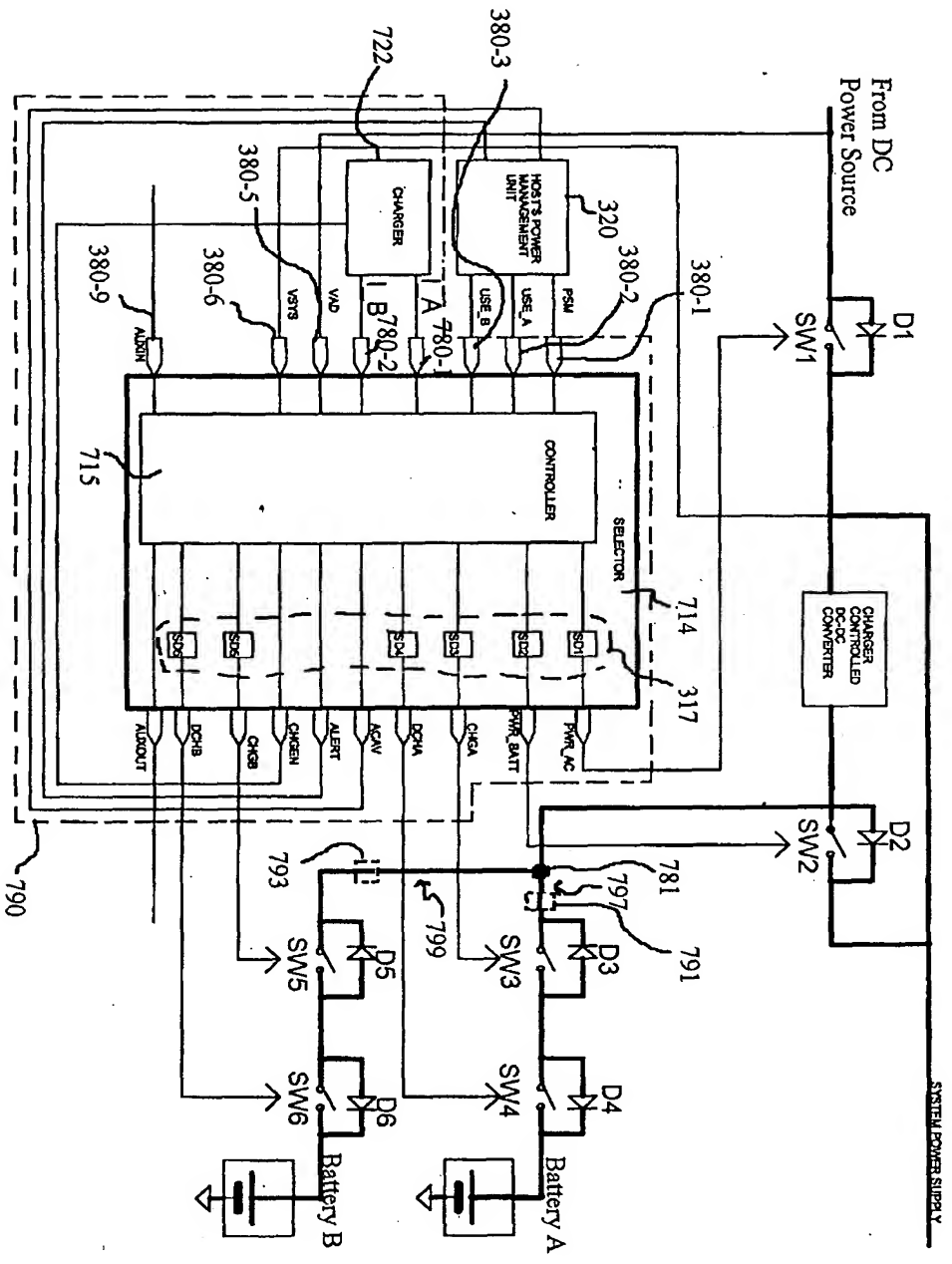


FIG. 7

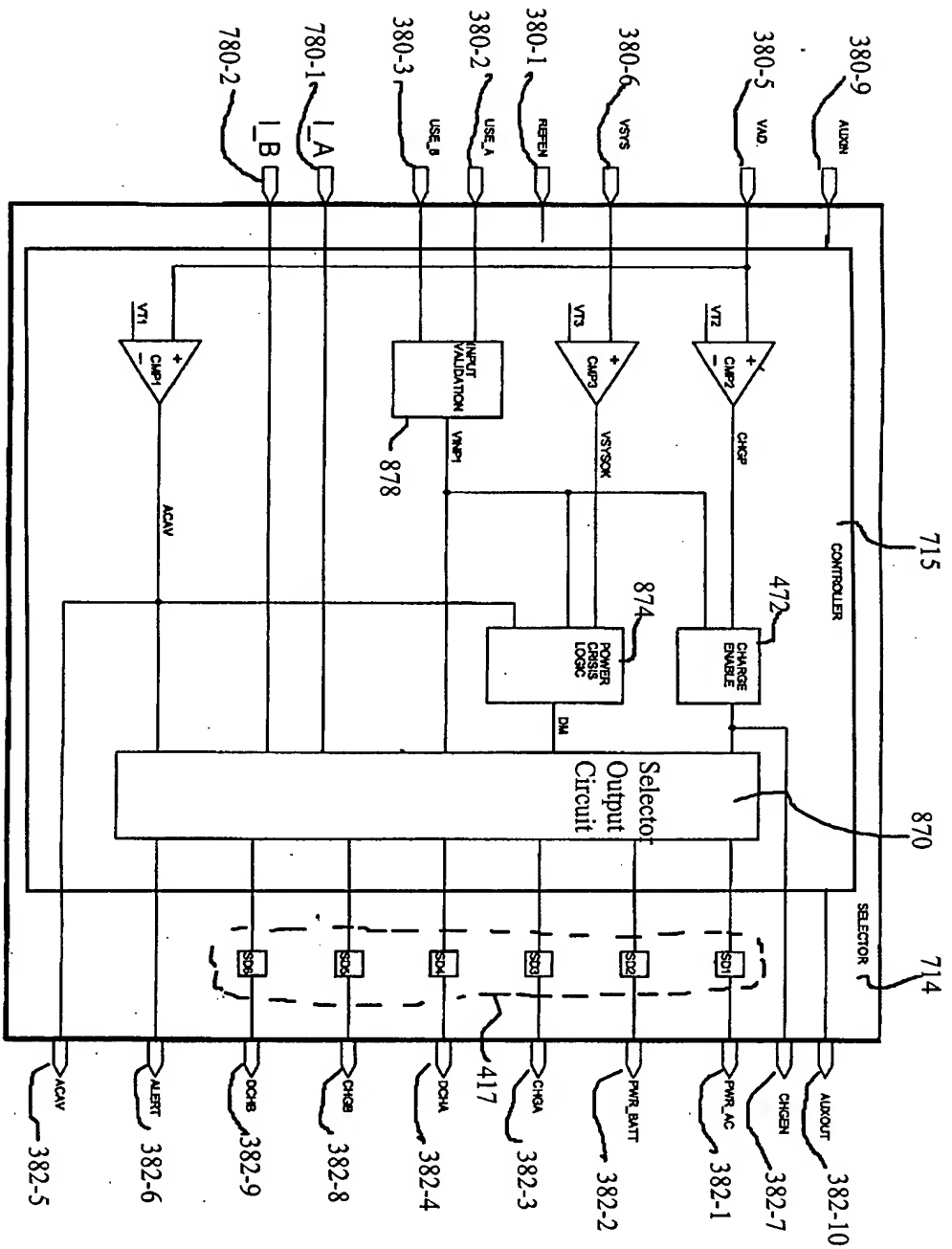


FIG. 8

900
2

	USE signals indicate Battery A		USE signals indicate Battery B		USE signals indicate Battery A and B in parallel			USE signals indicate neither Battery A or B
	902	904	906	908	910	912	914	916
Signal States	low	low	high	high	low	low	low	low
USE A	high	high	low	low	low	low	low	high
USE B	low	low	low	low	low	low	low	high
Battery A current signal	low	high	low	low	low	high	low	high
Battery B current signal	low	low	low	high	low	low	high	low
VINP1	high	high	high	high	high	high	high	high
CHGEN	high	high	high	high	high	high	high	high
Switch States								
SW1	ON	ON	ON	ON	ON	ON	ON	ON
SW2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
SW3	ON	ON	OFF	OFF	ON	ON	ON	ON
SW4	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
SW5	OFF	OFF	ON	ON	ON	ON	ON	ON
SW6	OFF	OFF	OFF	ON	OFF	OFF	ON	ON

FIG. 9

1000
2

	USE signals indicate Battery A	USE signals indicate Battery B	USE signals indicate Battery A and B in parallel			
Signal States	1002 — 1004	1006 — 1008	1010 — 1012	1014 — 1016		
USE A	low	low	high	high	low	low
USE B	high	high	low	low	high	high
Battery A current signal	low	high	low	low	high	high
Battery B current signal	low	low	high	low	high	high
VINP1	high	high	high	high	high	high
Switch States						
SW1	OFF	OFF	OFF	OFF	OFF	OFF
SW2	ON	ON	ON	ON	ON	ON
SW3	OFF	ON	OFF	ON	OFF	ON
SW4	ON	ON	OFF	ON	ON	ON
SW5	OFF	OFF	OFF	OFF	ON	ON
SW6	OFF	OFF	ON	ON	ON	ON

FIG. 10

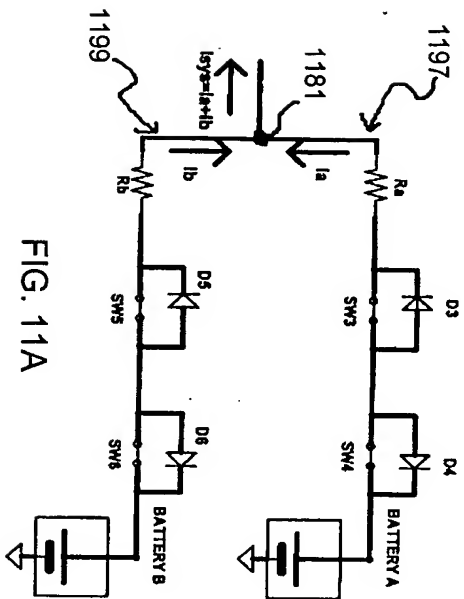


FIG. 11A

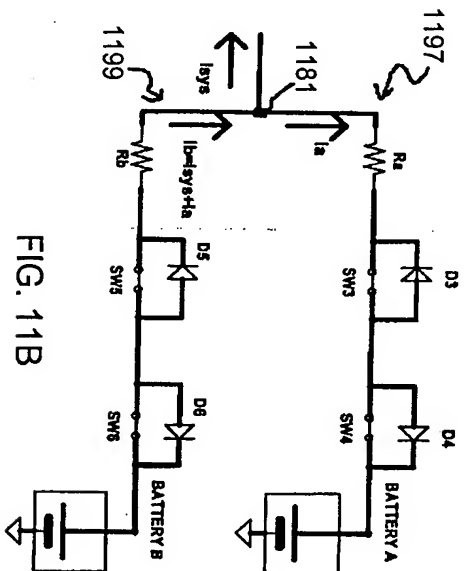


FIG. 11B

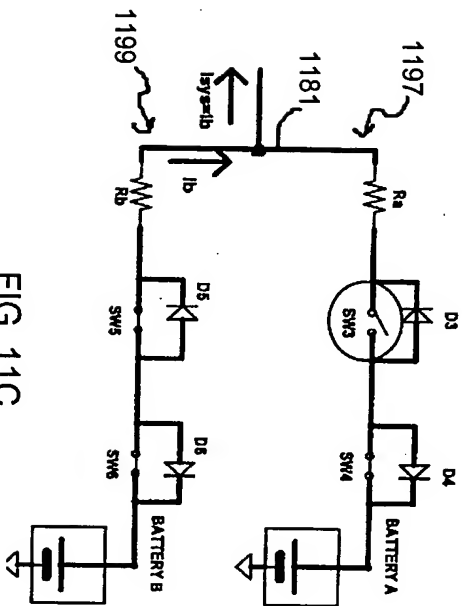


FIG. 11C